

Substitute for form 1449P-TO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/516,327
		Filing Date	2004-12-14
		First Named Inventor	Proctor, James A et al.
		Art Unit	2473
		Examiner Name	LAI, ANDREW
Sheet 1 of 13	Attorney Docket No: 080583		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	001	US7486929	02-03-2009	Van Buren, et al.	
	002	US7233771	05-19-2007	Proctor, Jr. et al.	
	003	US4000467	12-28-1976	Lentz et al.	
	004	US4001691	01-04-1977	Gruenberg et al.	
	005	US4061970	12-05-1977	Magneron et al.	
	006	US4081752	03-28-1978	Sumi et al.	
	007	US4124825	11-07-1978	Webb et al.	
	008	US4204016	05-20-1980	Chavannes et al.	
	009	US4334323	06-08-1982	Moore et al.	
	010	US4368541	01-11-1983	Evans et al.	
	011	US4509206	04-02-1985	Carpe et al.	
	012	US4701935	10-20-1987	Namiki et al.	
	013	US4723302	02-02-1988	Fulmer et al.	
	014	US4783843	11-08-1988	Leff et al.	
	015	US4820568	04-11-1989	Harpell et al.	
	016	US4922259	05-01-1990	Hall et al.	
	017	US5023930	06-11-1991	Leslie et al.	
	018	US5214788	05-25-1993	Delaperriere et al.	
	019	US5220562	06-15-1993	Takada et al.	
	020	US5341364	08-23-1994	Marra et al.	
	021	US5349483	09-20-1994	Hirohashi et al.	

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	022	US5371734	12-06-1994	Fischer et al.
	023	US5373503	12-13-1994	Chen et al.
	024	US5408197	04-18-1995	Miyake et al.
	025	US5408818	04-18-1995	Aho et al.
	026	US5430726	07-04-1995	Moorewood et al.
	027	US5485251	11-07-1995	Judd et al.
	028	US5471642	11-28-1995	Palmer et al.
	029	US5485486	01-16-1996	Gilhausen; Klein S. et al.
	030	US5509028	04-16-1996	Marque-Pucheu et al.
	031	US5515378	05-07-1996	Murthy et al.
	032	US5608755	03-04-1997	Rakib et al.
	033	US5610916	03-11-1997	Kostreski et al.
	034	US5648984	07-15-1997	Kroninger et al.
	035	US5654979	08-05-1997	Levin; Jeffrey A. et al.
	036	US5659879	08-19-1997	Dupuy et al.
	037	US5678198	10-14-1997	Lemson et al.
	038	US5684801	11-04-1997	Amitay et al.
	039	US5697052	12-09-1997	Treatch et al.
	040	US5726980	03-10-1998	Rickard et al.
	041	US5732334	03-24-1998	Miyake et al.
	042	US5745846	04-28-1998	Myer et al.

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Subchapter 101 (Form 1449) PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)	Complete # Known	
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	043	US5754540	05-19-1998	Liu et al.	
	044	US5771174	06-23-1998	Spinner et al.	
	045	US5784683	07-21-1998	Sistanizadeh et al.	
	046	US5815795	09-29-1998	Iwai et al.	
	047	US5852629	12-22-1998	Iwamatsu et al.	
	048	US5857144	01-05-1999	Mangum et al.	
	049	US5884181	03-16-1999	Arnold et al.	
	050	US5890055	03-30-1999	Chu et al.	
	051	US5903553	05-11-1999	Sakamoto et al.	
	052	US5907794	05-25-1999	Lehmusto et al.	
	053	US5963846	10-05-1999	Kurby et al.	
	054	US5987304	11-16-1999	Latt et al.	
	055	US6005855	12-21-1999	Zehavi et al.	
	056	US6005884	12-21-1999	Cook et al.	
	057	US6014380	01-11-2000	Hendol et al.	
	058	US6061548	05-09-2000	Reudink et al.	
	059	US6088570	07-11-2000	Komara et al.	
	060	US6101400	08-08-2000	Ogaz et al.	
	061	US6108364	08-22-2000	Weaver, Jr et al.	
	062	US6128729	10-03-2000	Kimball et al.	
	063	US6163276	12-19-2000	Iving et al.	

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	064	US6188719	02-13-2001	Collomby et al.	
	065	US6195051	02-27-2001	McCoy et al.	
	066	US6222503	04-24-2001	Gietema et al.	
	067	US6285863	09-04-2001	Zhang et al.	
	068	US6304563	10-16-2001	Blessent et al.	
	069	US6331792	12-18-2001	Tonietto et al.	
	070	US6339694	01-15-2002	Komara et al.	
	071	US6342777	01-29-2002	Takahashi et al.	
	072	US6370185	04-09-2002	Schmutz et al.	
	073	US6370369	04-09-2002	Kraiem et al.	
	074	US6377612	04-23-2002	Baker et al.	
	075	US6377640	04-23-2002	Trans et al.	
	076	US6385181	05-07-2002	Tsutsui et al.	
	077	US6441781	08-27-2002	Rog et al.	
	078	US6473131	10-29-2002	Neugebauer et al.	
	079	US6480481	11-12-2002	Park et al.	
	080	US6501955	12-31-2002	Durrant et al.	
	081	US6535732	03-18-2003	McIntosh et al.	
	082	US6539204	03-25-2003	Marsh et al.	
	083	US6649567	04-15-2003	Fullerton et al.	
	084	US6674198	06-03-2003	Petersson et al.	

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	085	US6671502	12-30-2003	Ogawa et al.	
	086	US6684058	01-27-2004	Karacaoglu et al.	
	087	US6728541	04-27-2004	Ohkura et al.	
	088	US6781544	08-24-2004	Saliga et al.	
	089	US6880103	04-12-2005	Kim et al.	
	090	US6906669	06-14-2005	Sabet et al.	
	091	US6934511	08-23-2005	Lovinggood et al.	
	092	US6934555	08-23-2005	Silva et al.	
	093	US6944139	09-13-2005	Campanella et al.	
	094	US6957042	10-18-2005	Williams et al.	
	095	US6983162	01-03-2006	Garani et al.	
	096	US6985518	01-10-2006	Easton et al.	
	097	US6990313	01-24-2006	Yarkosky et al.	
	098	US7027770	04-11-2006	Judd et al.	
	099	US7050442	05-23-2006	Proctor et al.	
	100	US7050452	05-23-2006	Sugar et al.	
	101	US7058368	06-06-2006	Nicholls et al.	
	102	US7088734	08-08-2006	Newberg et al.	
	103	US7103344	09-05-2006	Menard et al.	
	104	US7120930	10-10-2006	Mauter et al.	
	105	US7123678	10-17-2006	Gebara et al.	

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	106	US7132988	11-07-2006	Yegin et al.	
	107	US7133391	11-07-2006	Belcea et al.	
	108	US7139527	11-21-2006	Tamaki et al.	
	109	US7167526	01-23-2007	Liang et al.	
	110	US7194275	03-20-2007	Bolin et al.	
	111	US7200134	04-03-2007	Proctor, Jr et al.	
	112	US7215964	05-08-2007	Miyake et al.	
	113	US7248645	07-24-2007	Vialle et al.	
	114	US7254132	08-07-2007	Takao et al.	
	115	US7299005	11-20-2007	Yarkosky et al.	
	116	US7315573	01-01-2008	Lusky et al.	
	117	US7319714	01-15-2008	Sakata et al.	
	118	US7321787	01-22-2008	Kim et al.	
	119	US7338926	03-04-2008	Stanwood et al.	
	120	US7352696	04-01-2008	Stephens et al.	
	121	US7409186	08-05-2008	Van Buren et al.	
	122	US7430397	09-30-2008	Suda et al.	
	123	US7450936	11-11-2008	Kim et al.	
	124	US7577398	08-18-2009	Judd et al.	
	125	US7590145	08-15-2009	Futch et al.	
	126	US7623826	11-24-2009	Pergal et al.	

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	127	US7676194	03-09-2010	Rappaport et al.	
	128	US20070286110	12-13-2007	Proctor, James A. JR. et al.	
	129	US20010031646	10-18-2001	Williams, Terry L et al.	
	130	US20010054060	12-20-2001	Fillebrown, Lisa A et al.	
	131	US20020018487	02-14-2002	Chen, Song et al.	
	132	US20020045461	04-18-2002	Bongfeldt, David et al.	
	133	US20020089945	07-11-2002	Belcea, John M et al.	
	134	US20020101843	08-01-2002	Sheng, Huang Chih et al.	
	135	US20020102948	08-01-2002	Stanwood, Kenneth L et al.	
	136	US20020109585	08-15-2002	Sanderson, Leion Wayne. et al.	
	137	US20020115409	08-22-2002	Khayrallah, Ali S et al.	
	138	US20020136268	09-26-2002	Gan, Hongbing et al.	
	139	US20020141435	10-03-2002	Newberg, Donald G et al.	
	140	US20020163902	11-07-2002	Takao, Toshiaki et al.	
	141	US20030026363	02-06-2003	Stoter, Jan et al.	
	142	US20030139175	07-24-2003	Kim, Jong-Hwan et al.	
	143	US20030179734	09-25-2003	Tsutsumi, Takayuki et al.	
	144	US20030185163	10-02-2003	Bertonis, James G et al.	
	145	US20030235170	12-25-2003	Trainin, Solomon B et al.	
	146	US20030236069	12-25-2003	Sakata, Ren et al.	
	147	US20040028537	02-12-2004	Pugel, Michael Anthony et al.	

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as needed)		Complete # Known Application Number 10/516,327 Filing Date 2004-12-14 First Named Inventor Proctor, James A et al. Art Unit 2473 Examiner Name LAI, ANDREW	
Sheet	8	of	13
Attorney Docket No: 080583			

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	148	US20040038707	02-26-2004	Kim, Hyeong Seog et al.	
	149	US20040047333	03-11-2004	Han, Sung-Chul et al.	
	150	US20040047335	03-11-2004	Proctor, James Arthur JR et al.	
	151	US20040110469	06-10-2004	Judd, Mano D et al.	
	152	US20040131025	07-08-2004	Dohler, Mischa et al.	
	153	US20040146013	07-29-2004	Song, Peter Chun Teck et al.	
	154	US20040157551	08-12-2004	Gainey, Kenneth M et al.	
	155	US20040166802	08-26-2004	McKay, David L SR et al.	
	156	US20040176050	09-09-2004	Steer, David et al.	
	157	US20040198295	10-07-2004	Nicholls, Charles T et al.	
	158	US20040218683	11-04-2004	Ratra, Anuj et al.	
	159	US20040229563	11-18-2004	Fitton, Michael Philip et al.	
	160	US20040264511	12-30-2004	Fulch, Richard J et al.	
	161	US20050014464	01-20-2005	Larsson, Peter et al.	
	162	US20050030891	02-10-2005	Staphens, Adrian P et al.	
	163	US20050042999	02-24-2005	Rappaport, Theodore S et al.	
	164	US20050130587	06-16-2005	Suda, Hirohito et al.	
	165	US20050201315	09-15-2005	Lakkis, Ismail et al.	
	166	US20050254442	11-17-2005	Proctor, James A JR et al.	
	167	US20050256963	11-17-2005	Proctor Jr., James A et al.	

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*Andrew Lai*

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)	<b>Application Number</b>		10/516 327
	<b>Filing Date</b>		2004-12-14
	<b>First Named Inventor</b>		Proctor, James A et al.
	<b>Art Unit</b>		2473
	<b>Examiner Name</b>		LAI, ANDREW
Sheet 9 of 13		Attorney Docket No: 080583	

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	168	US20060035643	02-16-2006	Vook et al.	
	169	US20060041680	02-23-2006	Proctor Jr et al.	
	170	US20060052066	03-09-2006	Cleveland et al.	
	171	US20060052099	03-09-2006	Parker et al.	
	172	US20060056362	03-16-2006	Proctor et al.	
	173	US20060063484	03-23-2006	Proctor et al.	
	174	US20060063485	03-23-2006	Gainey et al.	
	175	US20060098592	05-11-2006	Proctor Jr et al.	
	176	US20060183421	08-17-2006	Proctor et al.	
	177	US20060203757	09-14-2006	Young et al.	
	178	US20060262026	11-23-2006	Gainey et al.	
	179	US20070025349	02-01-2007	Bajic et al.	
	180	US20070025486	02-01-2007	Gainey et al.	
	181	US20070032192	02-08-2007	Gainey et al.	
	182	US20070121546	05-31-2007	Zuckerman et al.	
	183	US20080057862	03-06-2008	Smith et al.	
	184	US20080233942	09-25-2008	Kim et al.	
	185	US7187904	03-06-2007	Gainey, Kenneth M et al.	

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	Application Number	10/516,327
	Filing Date	2004-12-14
	First Named Inventor	Proctor, James A et al.
	Art Unit	2473
	Examiner Name	LAI, ANDREW
Sheet 10 of 13	Attorney Docket No: 080583	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> Kind Code <sup>3</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
	186	EP0523687A2	01-20-1993	FUJITSU LTD [JP]		<input type="checkbox"/>
	187	EP0860953A1	08-26-1998	SAGEM [FR]		<input type="checkbox"/>
	188	GB2272599A	05-18-1994	NOKIA TELECOMMUNICATIONS OY [FI]		<input type="checkbox"/>
	189	JP8097762A	04-12-1996	INFUORABU KK		<input type="checkbox"/>
	190	JP9162903A	06-20-1997	VICTOR COMPANY OF JAPAN et al.		<input type="checkbox"/>
	191	JP7079187A	03-20-1995	ALCATEL MOBILE COMM FRANCE		<input type="checkbox"/>
	192	WO0208857A2	01-31-2002	CADENCE DESIGN SYSTEMS INC [US]		<input type="checkbox"/>
	193	WO0217572A2	02-28-2002	NORTEL NETWORKS CORP [CA] et al.		<input type="checkbox"/>
	194	WO2004002014A1	12-31-2003	WIDEFI INC [US] et al.		<input type="checkbox"/>
	195	WO2004062305A1	07-22-2004	WIDEFI INC [US] et al.		<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

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		First Named Inventor	Proctor, James A et al.	
		Art Unit	2473	
		Examiner Name	LAI, ANDREW	
Sheet	11	of	13	Attorney Docket No: 080583

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	196	ANDRISANO, et al., "On the Spectral Efficiency of CPM Systems over Real Channel in the Presence of Adjacent Channel and CoChannel Interference: A Comparison between Partial and Full Response Systems, IEEE Transactions on Vehicular Technology, Vol. 39, No. 2, May 1990.
	197	Code of Federal Regulations, Title 47 Telecommunication; "Federal Communications Commission code part 15.407," Federal Communications Commission vol. 1, chapter I, part 15.407.
	198	Copy of First Office Action issued from the Chinese Patent Office in connection with corresponding Chinese application No. 200380101286.2
	199	Draft Corrigendum to IEEE Standard for Local and Metropolitan Area Networks- Part 16: Air Interface for Fixed Broadband Wireless Access Systems, IEEE P802.16-2004/Cor1/D5
	200	Draft IEEE Standard for Local and Metropolitan Area Networks- Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems, Amendment for Physical and Medium Access Control Layers for Combined Fixed and Mobile Operation in Licensed Bands.
	201	IEEE 802.16(e), Part 16: Air Interface for Fixed Broadband Wireless Access Systems, 2005, Sections 8.4.10.2.1, 8.4.10.3.2.
	202	IEEE Std 802.11-1999 (Reaff 2003), "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications," LAN MAN Standards Committee of the IEEE Computer Society, Paragraphs 7.2.3.1 and 7.2.3.9; Paragraph 7.3.2.4; Paragraphs 15.4.6.2 and 18.4.6.2.
	203	IEEE Std 802.11b-1999, "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Higher-Speed Physical Layer Extension in the 2.4 GHz Band," IEEE-SA Standards Board, Supplement to ANSI/IEEE Std. 802.11, 1999 Edition, Approved September 16, 1999
	204	IEEE Std 802.11g-2003, "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: Amendment 4: Further Higher Data Rate Extension in the 2.4 GHz Band," IEEE Computer Society, Published by The Institute of Electrical and Electronics Engineers, Inc., June 27, 2003.

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Substitute for form 1449/PTO		Complete if Known			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/516,327		
		Filing Date	2004-12-14		
		First Named Inventor	Proctor, James A et al.		
		Art Unit	2473		
		Examiner Name	LAI, ANDREW		
Sheet	12	of	13	Attorney Docket No:	080583

NON PATENT LITERATURE DOCUMENTS		
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	205	IEEE Std 802.16-2001: "Part 16: Air Interface for Fixed Broadband Wireless Access Systems." IEEE Computer Society and the IEEE Microwave Theory and Techniques Society. Published by The Institute of Electrical and Electronics Engineers, Inc., 2002.
	206	International Search Report - PCT/US03/016208, International Search Authority 06-03 (080583WO).
	207	KANNANGARA, et al., "Analysis of an Adaptive Wideband Duplexer with Double Cancellation," IEEE Transactions on Vehicular Technology, vol. 56, no. 4, July 2007, pp. 1971-1982.
	208	KUTLU, et al., "Performance Analysis of MAC Protocols for Wireless Control Area Network," 1996 IEEE, pp. 494-499.
	209	Notification of the First Office Action from Chinese Patent Office dated September 1, 2003 for the corresponding Chinese patent application No. 200380105267.7.
	210	Official communication issued from the European Patent Office dated August 7, 2003 for the corresponding European patent application No. 03759271.4-2412.
	211	Official communication issued from the European Patent Office dated December 1, 2003 for the corresponding European patent application No. 03759271.4-2412.
	212	Second Office Action issued from the Chinese Patent Office on July 20, 2007 in connection with corresponding Chinese application No. 200380101286.2.
	213	Specifications for 2.3 GHz Band Portable Internet Service - Physical & Medium Access Control Layer, TTAS.KO-06.0082/R1, December 2006.
	214	Third Office Action issued from the Patent Office of People's Republic of China dated January 4, 2008 in corresponding Chinese Patent Application No. 20038010128.
	215	U.S. PTO Office Action mailed on April 17, 2007 for the corresponding parent patent application No. 11/339,838, now U.S. Patent No. 7,230,935.
	216	U.S. PTO Office Action mailed on January 24, 2007 for the corresponding parent patent application No. 11/339,838, now U.S. Patent No. 7,230,935.
	217	U.S. PTO Office Action mailed on November 21, 2006 for the corresponding parent patent application No. 11/339,838, now U.S. Patent No. 7,230,935.
	218	U.S. PTO Office Action mailed on November 6, 2006 for the corresponding parent patent application No. 11/339,838, now U.S. Patent No. 7,230,935.

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*Andrew Lai*

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*4/21/2010*

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